Docket No.

9847-0044-6X PCT

ENKEL

8303

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

LI MING ET AL

SERIAL NO:

09/508,683

FILED:

JUNE 1, 2000

FOR:

POWER TRANSFORMER/REACTOR AND X METHO:

GAU:

2832

EXAMINER: Unassigned

F ADAPTING A HIGH VOLTAGE CABLE

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

ASSISTANT COMMISSIONER FOR PATENTS WASHINGTON, D.C. 20231

Applicant(s) wish to disclose the following information.

REFERENCES

- Applicant(s) wish to make of record the references listed on the attached form PTO-1449 which are relevant to the present case as well as related "bulk filing applications" cases, as discussed in Paper No. 11 Response to Petition under 37 CFR 1.182 Seeking Special Treatment Relating to an Electronic Search Tool, and Decision on Petition under 37 CFR 1.183 Seeking Waiver of Requirements under 37 CFR 1.98 (i.e., the "Response to Petition"). Because the references were cited by foreign examiners in a foreign case that corresponds with one of the U.S. "bulk filing applications", or were uncovered by the present assignee in the course of performing supplemental searches the references are believed to be relevant to the present application and bulk filing applications. Three copies of each of the listed references were provided in "holding application" Serial No. 09/147,325 filed February 17, 1999 to the Patent Office consistent with the requirements in the Response to Petition.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- Each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

Please charge any additional fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

Once

Gregory J. Maier

Registration No.

25,599

Bradley D. Lytle

40,073

I:\atty\BDL\9847\FILED-IDS\98470044.IDS.wpd

22850

Tel. (703) 413-3000 Fax. (703) 413-2220

(OSMMN 10/98)

Registration No.



INFORMATION DISCLOSURE CITATION LIST **ALTERNATE FORM PTO-1449** (additional to original listing)

Docket Number: 9847-0044-6X PCT Application Numbe 09/508,683

Applicant(s): LI MING ET AL Filing Date:

JUNE 1, 2000

Group Art

	U	.S.	PAT	ENT	DO	CU	MEN	TS
-								

		U.S. F	PATENT DOCUMENTS			
-	DOCUMENT NUMBER	DATE	NAME	CLASS		FILING DATE IF APPROPRIAT
1		9/16/24	W.G.Lenz			
					_	
		<u> </u>				
					l	
				+	 	·
				+		
				+		
				-		·
				_		
				_		
	······				<u> </u>	
				-		
			_ -			
				_		
		100000				
22	US 3,993,860					
23	US 4,008,367					
24	US 4,132,914					
25	US 4,314,168	2/2/82	O. Breitenbach			
26	US 4,321,426	3/23/82	F.K.Schaeffer			
27	US 4,361,723	11/30/82	A.Hvizd Jr. et al`			
28	US 4,365,178	12/21/82	H.G.Lexz			
29		1/11/83	F.Spirk		72.7	
30		5/24/83	D. A. Silver et al			
31		8/30/83	R.S.Taylor et al		90	
			B. Lundqvist		ſ	2.3
		3/20/84	J.J.Crow		-	1
		11/20/84	R.S.Taylor et al			
		12/25/84	R.S.Taylor et al		1	ii :ii
			K.Harada et al		Ç.)
				- †	3	
						
					<u> </u>	
42	US 4,723,083	2/2/88	R.K.Elton			
72	00 4,120,000			+	 	
43	US 4,724,345	2/9/88	R.K.Elton et al	L		
	24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	NUMBER 1	DOCUMENT NUMBER	NUMBER	DOCUMENT NUMBER DATE NAME CLASS	DOCUMENT NUMBER

Examiner

Date Considered

*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP0 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION LIST **ALTERNATE FORM PTO-1449**

(C	rr	cted	Listing	of	Original	List)
	_	••			•	·		_

							t-	2007
	45	US 4,761,602	8/2/88	G.Leibovich			T _e	19
	46	US 4,771,168	9/13/88	M.Gundersen et al			100 m	- Sec
	47	US 4,859,989	8/22/89	H. McPherson			The same of the sa	منت المام
	48	US 4,890,040	12/26/89	M.A. Gundersen		-		
	49	US 4,982,147	1/1/91	H.K.Lauw				-
ļ	50	US 5,030,813	7/9/91	J. Stanisz	 			
<u> </u>					 		 	
	51	US 5,091,609	2/25/92	K.Swada et al				
	52	US 5,095,175	3/10/92	F.Yoshida et al				
	53	US 5,171,941	12/15/92	H. Shimizu et al				
	54	US 5,182,537	1/26/93	R.C.Thuis				
	55	US 5,231,249	7/27/93	H.Kimura et al				
	56	US 5,287,262	2/15/94	J.Klein				
	57	US 5,325,259	6/28/94	L. Paulsson				
	58	US 5,399,941	3/21/95	M.G.Grothaus et al	† †			-
<u> </u>	59	US 5,408,169	4/18/95	R.Jeanneret	11			
	60	US 5,449,861	9/12/95	T. Fujino et al			 	
			3/12/96	N. Mohan			 	
	61	US 5,499,178			 		ļ	
	62	US 5,533,658	7/9/96	R.B. Benedict et al	 			
	63	US 5,534,754	7/9/96	M. Poumey	<u> </u>			
	64	US 5,834,699	11/10/98	A.G.Buck et al			<u></u>	
	65	US 847,008	3/12/07	l Kitsee				
		Ĭ .						
			İ					
			<u> </u>		i i			
			<u> </u>		1			,
					+ +			
			 		 			
		<u> </u>			 			
			ļ					
	•							
			i			С.		
						C. C.	. :	·
			1	" "	† †	<u> </u>	•	1 .
-	l		1		† †		1 :	
			 		 	Ţ.		<u>: 1</u>
					 	-		
			 		+ +		2.7	<u> </u>
	ļ		ļ		 	ROU	\	
			ļ			_=	ļ	
							ļ	
							<u> </u>	
							i	
-			1		1 1		_	
			 		 		 	
	L	<u>. </u>		I			<u> </u>	

	· · · · · · · · · · · · · · · · · · ·	
Examine		Date
<u> </u>		Considered

Subtotal

65170

Considered

*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP0 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



	01P	\
6.		7
- 6 ^	MR 0 6 2001	<u> 원</u>
Ä	- 2007	14
₹ <u>\</u>	DEMARKS THE	i)
×	OF BARRIES	

				N PATENT DOCUMENTS	₩	DEMARY JE	
		DOCUMENT NUMBER	DATE			SLATION	
					YES	NO	
	1	DE 209,313	4/25/84	Germany			
	2	DE 134,022	12/28/01	Germany			
	3	DE 1,465,719	5/22/69	Germany	:		
	4	DE 19,020,222	3/13/97	Germany			
	5	DE 19,620,906	1/8/96	Germany			
	6	DE 386,561	12/13/23	Germany			
	7	DE 3,925,337	2/7/91	Germany			
	8	DE 406,371	11/21/24	Germany			
	9	DE 4,402,184	8/3/95	Germany			
	10	DE 4,438,186	5/2/96	Germany			
	11	DE 975,999	1/10/63	Germany			
· · · · · · · · · · · · · · · · · · ·	12	EP 0,102,513	1/22/86	European			
	13	EP 0,185,788	7/2/86	European			
	14	EP 0,221,404	5/16/90	European			
	15	EP 0,503,817	9/16/92	European		*******	
	16	EP 0,620,630	10/19/94	European			
	17	EP 0,739,087 A2	10/23/96	European			
	18	EP 0,739,087 A3	3/27/97	European			
	19	EP 0,749,193 A3	3/26/97	European			
			12/18/96				
	20	EP 0,749,190 A2	5/6/99	European			
		EP 0,913,912 A1		European			
	22	FR 2,481,531	10/30/81	France			
	23	FR 916,959	12/20/46	France			
	24	EP 0,221,404	5/16/90	European			
	25	EP 0,277,358	8/10/86	European			
	26		2/5/92	European			
	27	GB 2,150,153	6/26/85	United Kingdom		***	
	28	GB 2,332,557	6/23/99	United Kingdom			
	29	DE 468,827	7/13/97	Germany			
	30	GB 666,883	2/20/52	United Kingdom			
	31	GB 739,962	11/2/55	United Kingdom			
	32	HU 175,494	11/28/81	Hungary	1		
	33	JP 2,017,474	1/22/90	Japan	5 <u>3</u>	77.	
	34	JP 57,126,117	5/8/82	Japan	<u> </u>	1.	
	35	JP 62,320,631	6/23/89	Japan	- 1		
	36	JP 7,161,270	6/23/95	Japan	5.	<u> </u>	
	37	JP 8,036,952	2/6/96	Japan		- 1	
	38	JP 8,167,360	6/25/96	Japan	2 *	: 111	
	39	SU 1,189,322	10-86	Switzerland			
	40	SU 266,037	10/11/65	Switzerland	22.		
	41	SU 646,403	2/8/79	Switzerland			
	42	WO 91/11841	8/8/91	PCT			
	43		4/23/91	Int'l Search Report			
	44	WO 91/15755	10/17/91	PCT			
	45	WO 97/29494	8/14/97	PCT		, <u>.</u>	
	46	WO 98/40627	9/17/98	PCT			
-	47	WO 98/43336	10/1/98	PCT			
	48	PCT/DE 90/00279		Int'l Search Report			

Examiner
Date
Considered
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP0 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION LIST ALTERNATE FORM PTO-1449							
			(Corr cte	d Listing of Original List)		<u> </u>	
						MAR D S	
	49	PCT/CN 96/00010	10/23/96	Int'l Search Report		MAR 0 6 2001	
	50	PCT/FR 98/00468	6/8/98	Int'l Search Report	1	, , , , ,	
	51	PCT/SE 98/02148	6/10/99	Int'l Prelim. Examination Report	T '	ADEMAES THE	
				•		EMAEL	
		-					
						<u> </u>	
	<u> </u>		<u></u>				
					 		
					- 		
	ļ					 	
							
					-		
.							

					-	-	
		<u> </u>			-		
-	<u> </u>						
			 				
	<u> </u>				-1		
					â	· 27	
					0.3		
						· •	
					<i>-</i>		
					L 15	:	
					RC 0.14	Ci)	
	<u> </u>				<u>C</u>		
	 		·				
	_						
			 			<u> </u>	

Examine	Date
r	Considered
*Examiner: Initial if reference is considered, whether or not	citation is in conformance with MPEP0 609; Draw line through
citation if not in conformance and not considered. Include co	ppy of this form with next communication to applicant.

Subtotal

51

•

INFORMATION DISCLOSURE CITATION LIST ALTERNATE FORM PTO-1449 (C rrected Listing f Original List)

MAR 0 6 2001

MADENAGE OTHER REFERENCES (Including Title, Auth r, Dat , Pertinent Pag s, etc.) 1 OD 044 A test installation of a self-tuned ac filter in the Konti-Skan 2 HVDC link; T. Holmgren,G. Asplund, S. Valdemarsson, P. Hidman of ABB; U. Jonsson of Svenska Kraftnat; O. loof of Vattenfall Vastsverige AB; IEEE Stockholm Power Tech Conference 6/1995, pp 64-70 Analysis of faulted Power Systems; P Anderson, Iowa State University Press / Ames, 2 OD 045 lowa, 1973, pp 255-257 36-Kv. Generators Arise from Insulation Research; P. Sidler; Electrical World 10/15/1932, 3 OD 046 OD 047 Oil Water cooled 300 MW turbine generator; L.P. Gnedin et al; Elektrotechnika, 1970, 4 J&P Transformer Book 11th Edition; A. C. Franklin et al; owned by Butterworth -5 OD 048 Heinemann Ltd, Oxford Printed by Hartnolls Ltd in Great Britain 1983, pp29-67 Transformerboard; H.P. Moser et al; 1979, pp 1-19 6 OD 049 The Skagerrak transmission - the world's longest HVDC submarine cable link; L. Haglof 7 OD 050 et al of ASEA; ASEA Journal Vol 53, Number 1-2, 1980, pp 3-12 Direct Connection of Generators to HVDC Converters: Main Characteristics and 8 OD 051 Comparative Advantages; J.Arrillaga et al; Electra No. 149, 08/ 1993, pp 19-37 Our flexible friend article; M. Judge; New Scientist, 05/10/1997, pp 44-48 9 OD 052 10 In-Service Performance of HVDC Converter transformers and oil-cooled smoothing OD 053 reactors; G.L. Desilets et al; *Electra* No. 155, 08/1994, pp 7-29 11 OD 054 Transformateurs a courant continu haute tension-examen des specifications; A. Lindroth et al; *Electra* No 141, 04/1992, pp 34-39 Development of a Termination for the 77 kV-Class High Tc Superconducting Power 12 OD 055 Cable; T. Shimonosono et al; IEEE Power Delivery, Vol 12, No 1, 01/1997, pp 33-38 Verification of Limiter Performance in Modern Excitation Control Systems; G. K. Girgis et 13 OD 056 al; IEEE Energy Conservation, Vol. 10, No. 3, 09/1995, pp 538-542 A High Initial response Brushless Excitation System; T. L. Dillman et al; IEEE Power 14 OD 057 Generation Winter Meeting Proceedings, 01/31/1971, pp 2089-2094 Design, manufacturing and cold test of a superconducting coil and its cryostat for SMES 15 OD 058 applications; A. Bautista et al; IEEE Applied Superconductivity, Vol 7, No. 2, 06/1997, pp 853-856 16 OD 059 Quench Protection and Stagnant Normal Zones in a Large Cryostable SMES; Y. Lvovsky et al; IEEE Applied Superconductivity, Vol. 7, No. 2, 06/1997, pp 857-860 17 OD 060 Design and Construction of the 4 Tesla Background Coil for the Navy SMES Cable Test Apparatus: D.W.Scherbarth et al; IEEE Appliel Superconductivity, Vol. 7, No. 2, 06/1997, pp 840-843 High Speed Synchronous Motors Adjustable Speed Drives; ASEA Generation Pamphlet 18 OD 061 OG 135-101 E, 01/1985, pp 1-4 Billig burk motar overtonen; A. Felldin; ERA (TEKNIK) 08/1994, pp 26-28 19 OD 062 400-kV XLPE cable system passes CIGRE test; ABB Article; ABB Review 09/1995, pp 38 20 OD 063 21 OD 064 FREQSYN – a new drive system for high power applications; J-A. Bergman et al; ASEA Journal 59, 04/1986, pp16-19 22 OD 065 Canadians Create Conductive Concrete; J. Beaudoin et al; Science, Vol. 276, 05/23/1997, pp 1201 Fully Water-Cooled 190 MVA Generators in the Tonstad Hydroelectric Power Station; E. 23 OD 066 Ostby et al; BBC Review 08/1969, pp 380-385 Relocatable static var compensators help control unbundled power flows; R. C. Knight et 24 OD 068 al; Transmission & Distribution, 12/1996, pp 49-54 Investigation and Use of Asynchronized Machines in Power Systems*; N.I.Blotskii et al; 25 OD 069 Elektrichestvo, No. 12, 1-6, 1985, pp 90-99 Variable-speed switched reluctance motors; P.J. Lawrenson et al; IEE proc, Vol 127, 26 OD 070 Pt.B, No.4, 07/1980, pp 253-265

Examine D	ate
<u>r</u> C	onsidered
*Examiner: Initial if reference is considered, whether or not citation is in conformance	with MPEP0 609; Draw line through
citation if not in conformance and not considered. Include copy of this form with next of	communication to applicant.



INFORMATION DISCLOSURE CITATION LIST ALTERNATE FORM PTO-1449 (C rr cted Listing of Original List)

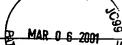
MAR 0 6 2001

27		
	OD 071	Das Einphasenwechselstromsystem hoherer Frequenz; J.G. Heft; Elektrische Bahnen eb; 12/1987, pp 388-389
28	OD 072	Power Transmission by Direct Current; E. Uhlmann; ISBN 3-540-07122-9 Springer-Verlag, Berlin/Heidelberg/New York; 1975, pp 327-328
29	OD 073	Elektriska Maskiner; F. Gustavson; Institute for Elkreafteknilk, KTH; Stockholm, 1996, pp 3-6 - 3-12
30	OD 074	Die Wechselstromtechnik; A. Cour' Springer Verlag, Germany; 1936, pp 586-598
31	OD 075	Insulation systems for superconducting transmission cables; O.Toennesen; Nordic Insulation Symposium, Bergen, 1996, pp 425-432
32	OD 076	MPTC: An economical alternative to universal power flow controllers; N. Mohan; EPE 1997, Trondheim, pp 3.1027-3.1030
33	OD 078	Lexikon der Technik; Luger; Band 2, Grundlagen der Elektrotechnik und Kerntechnik, 1960, pp 395
34	OD 079	Das Handbuch der Lokomotiven (hungarian locomotive V40 1'D'); B. Hollingsworth et al; Pawlak Verlagsgesellschaft; 1933, pp. 254-255
35	OD 080	Synchronous machines with single or double 3-phase star-connected winding fed by 12-pulse load commutated inverter. Simulation of operational behaviour; C. Ivarson et al; ICEM 1994, International Conference on electrical machines, Vol. 1, pp 267-272
36	OD 081	Elkrafthandboken, Elmaskiner; A. Rejminger; Elkrafthandboken, Elmaskiner 1996, 15-20
37	OD 082	Power Electronics - in Theory and Practice; K. Thorborg; ISBN 0-86238-341-2, 1993, pp 1-13
38	OD 083	Regulating transformers in power systems- new concepts and applications; E. Wirth et al; ABB Review 04/1997, p 12- 20,
39	OD 084	Tranforming transformers; S. Mehta et al; <i>IEEE Spectrum</i> , July 1997, pp. 43-49
40	OD 085	A study of equipment sizes and constraints for a unified power flow controller; J. Bian et al; IEEE Transactions on Power Delivery, Vol.12, No.3, July 1997, pp.1385-1391
41	OD 086	Industrial High Voltage; F.H. Kreuger; Industrial High Voltage 1991 Vol I, pp. 113-117
42	OD 087	Hochspannungstechnik; A. Küchler; Hochspannungstechnik, VDI Verlag 1996, pp.365-366, ISBN 3-18-401530-0 or 3-540-62070-2
43	OD 088	High Voltage Engineering; N.S. Naidu; High Voltage Engineering, second edition 1995 ISBN 0-07-462286-2, Chapter 5, pp91-98,
44	OD 089	Performance Characteristics of a Wide Range Induction Type Frequency Converter; G.A. Ghoneem; Ieema Journal, September 1995, pp 21-34
45	OD 090	International Electrotechnical Vocabulary, Chapter 551 Power Electronics; unknown author; International Electrotechnical Vocabulary Chapter 551: Power Electronics Bureau Central de la Commission Electrotechnique Internationale, Geneve; 1982, pp1-65
46	OD 091	Design and manufacture of a large superconducting homopolar motor; A.D. Appleton; IEEE Transactions on Magnetics, Vol. 19,No.3, Part 2, 05/1983, pp 1048-1050
47	OD 092	Application of high temperature superconductivy to electric motor design; J.S. Edmonds et al; IEEE Transactions on Energy Conversion 06/1992, No. 2, pp 322-329
48	OD 093	Power Electronics and Variable Frequency Drives; B. Bimal; IEEE industrial Electronics - Technology and Applications, 1996, pp.356,
49	OD 094	Properties of High Plymer Cement Mortar; M. Tamai et al; Science & Technology in Japan, No 63; 1977, pp 6-14
50	OD 095	Weatherability of Polymer-Modified Mortars after Ten-Year Outdoor Exposure in Koriyama and Sapporo; Y. Ohama et al; Science & Technology in Japan No. 63; 1977, pp 26-31
51	OD 096	SMC Powders Open New Magnetic Applications; M. Persson (Editor); <i>SMC Update</i> ,Vol. 1, No. 1, April 1997
52	OD 097	Characteristics of a laser triggered spark gap using air, Ar, CH4,H2, He, N2, SF6 and Xe; W.D. Kimura et al; Journal of Applied Physics, Vol. 63, No 6, 15 March 1988, p. 1882-1888
53	OD 098	Low-intensy laser-triggering of rail-gaps with magnesium-aerosol switching-gases; W. FREY; 11th International Pulse Power Conference, 1997, Baltimore, USA Digest of Technical Papers, p. 322-327

Examine	Date				
rk	Considered				
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP0 609; Draw line through					
citation if not in conformance and not considered. Include copy of this form with next	communication to applicant.				



ALTERNATE FORM PTO-1449 (C rrect d Listing f Original List)



		 		_ <i></i>	
				6	18
		 		<u> </u>	
					Bearing
					· · · · · · · · · · · · · · · · · · ·
70 28 3 T		 			
70 28 3 T	1				
70 28 3 T		 			
70 28 3 T					
70 28 3 T			•		
70 28 3 T		 			
70 28 3 T					
70 28 3 T					
70 28 3 T		 			
70 28 3 T					
70 28 3 T		 			· · · · · · · · · · · · · · · · · · ·
70 28 3 T	j i				
70 28 3 T					
70 28 3 T					
70 28 3 T					
70 28 3 T					
					2,70
			<u></u>		
			5.		
				و=	· 🚉
		 		- 1	
			and the same of th		1 + 1
		 	4-5		
				770	2001
					1 1 4
					٠
			•		
	·				***************************************
	,				
	, and the second				
	<u> </u>				

Subtotal	53				0.0	,	
			· · · · · · · · · · · · · · · · · · ·				
GRAND							
TOTAL	169						

Examine	Date
	Considered

*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP0 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.